

Emerging Tech Topics for Interop

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Topics

- ▶ Unmanned Aircraft Systems video
- ▶ Augmented reality
- ▶ MANET radios
- ▶ Federated identity management
- ▶ Team Awareness Kit and interoperability

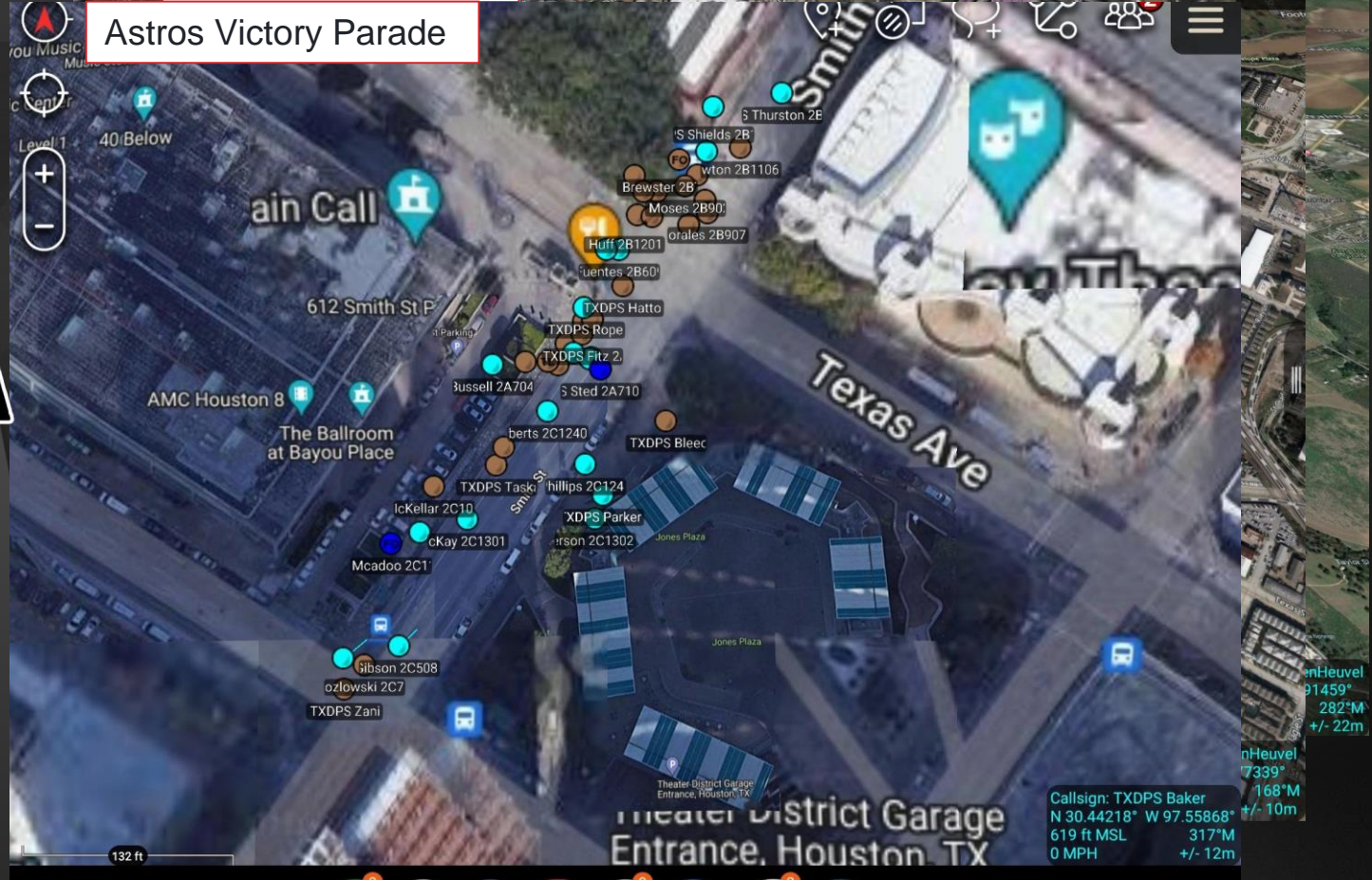


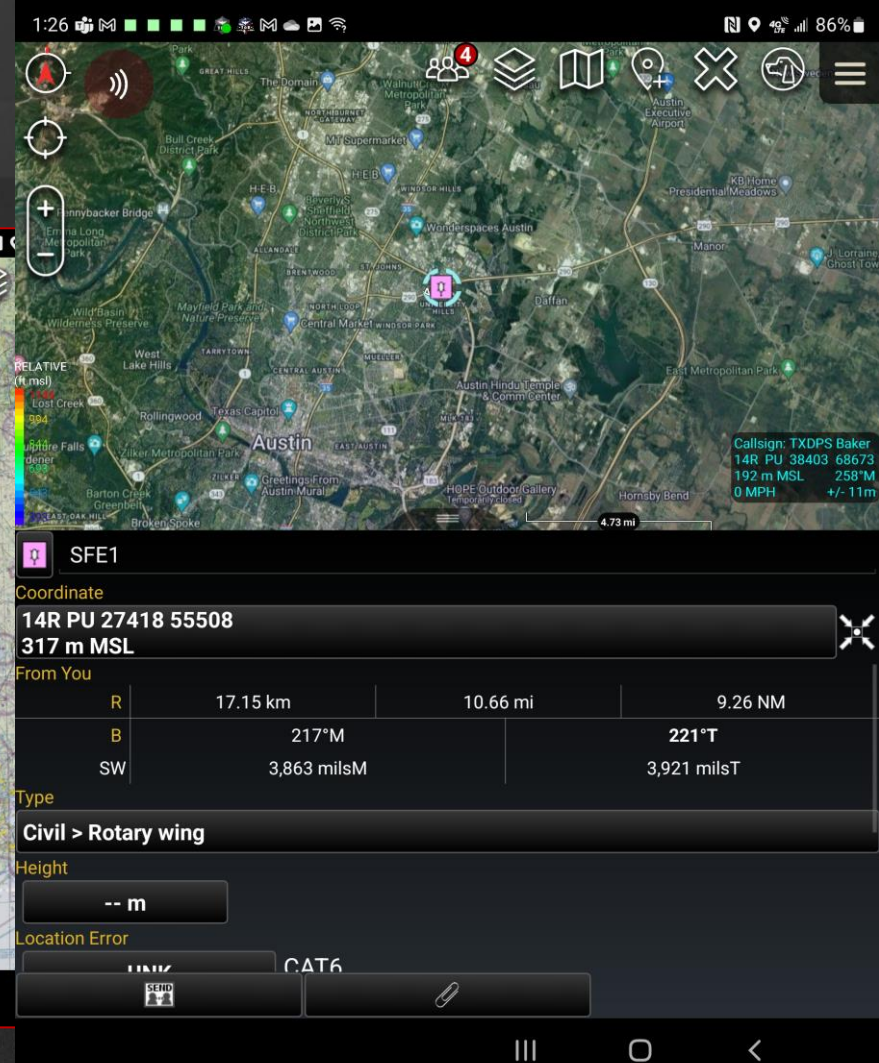
Team Awareness Kit

- ▶ Situational awareness
- ▶ Tactical coordination
- ▶ GOTS software

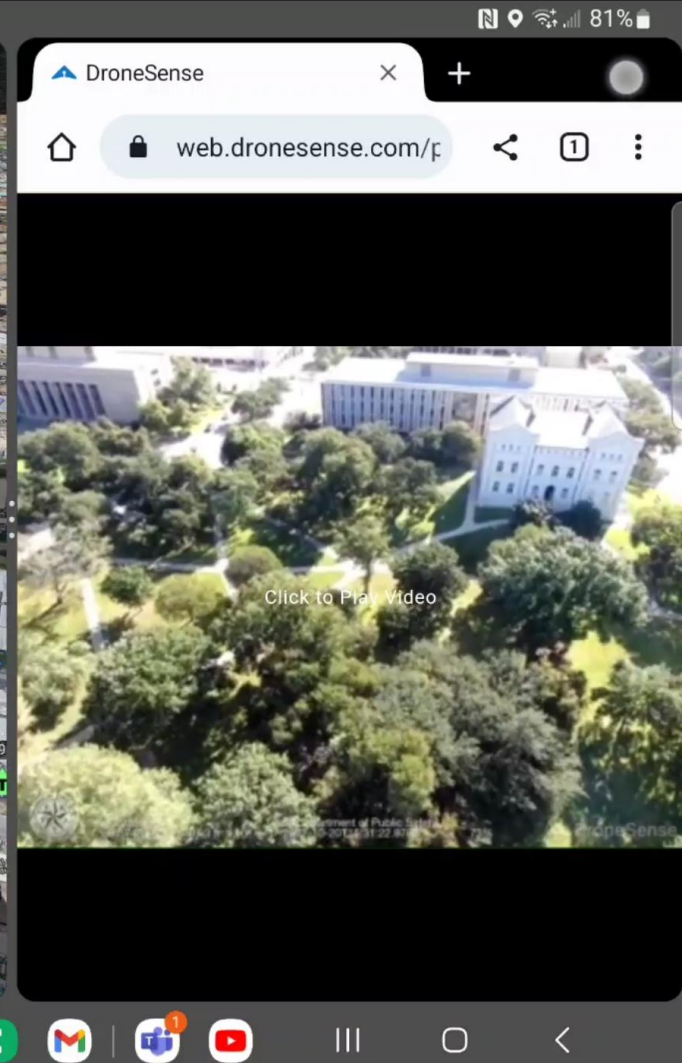
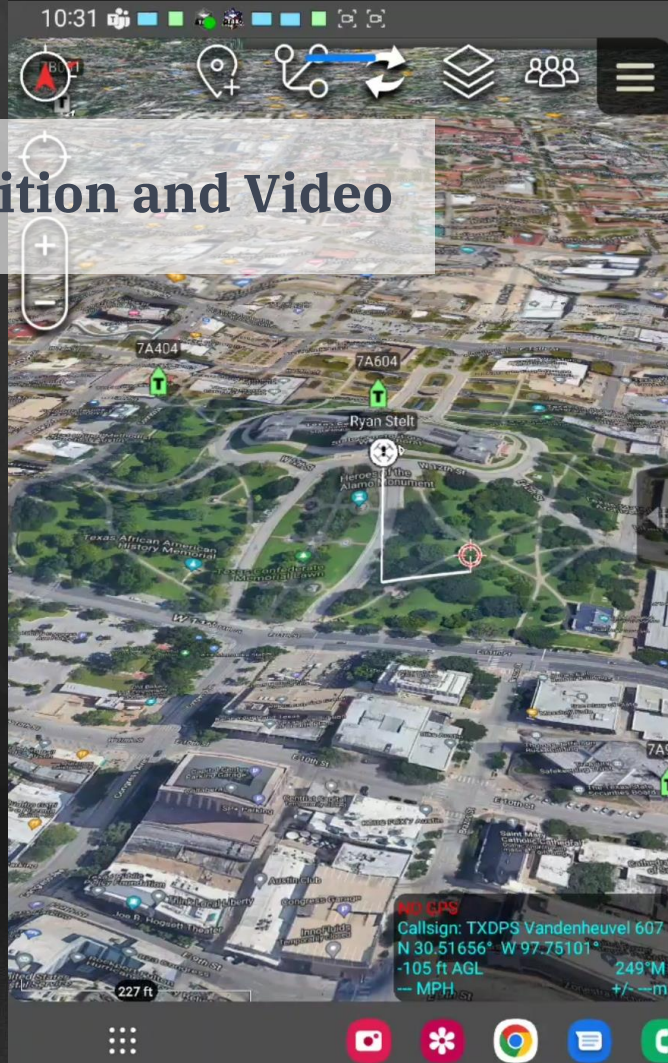


Astros Victory Parade



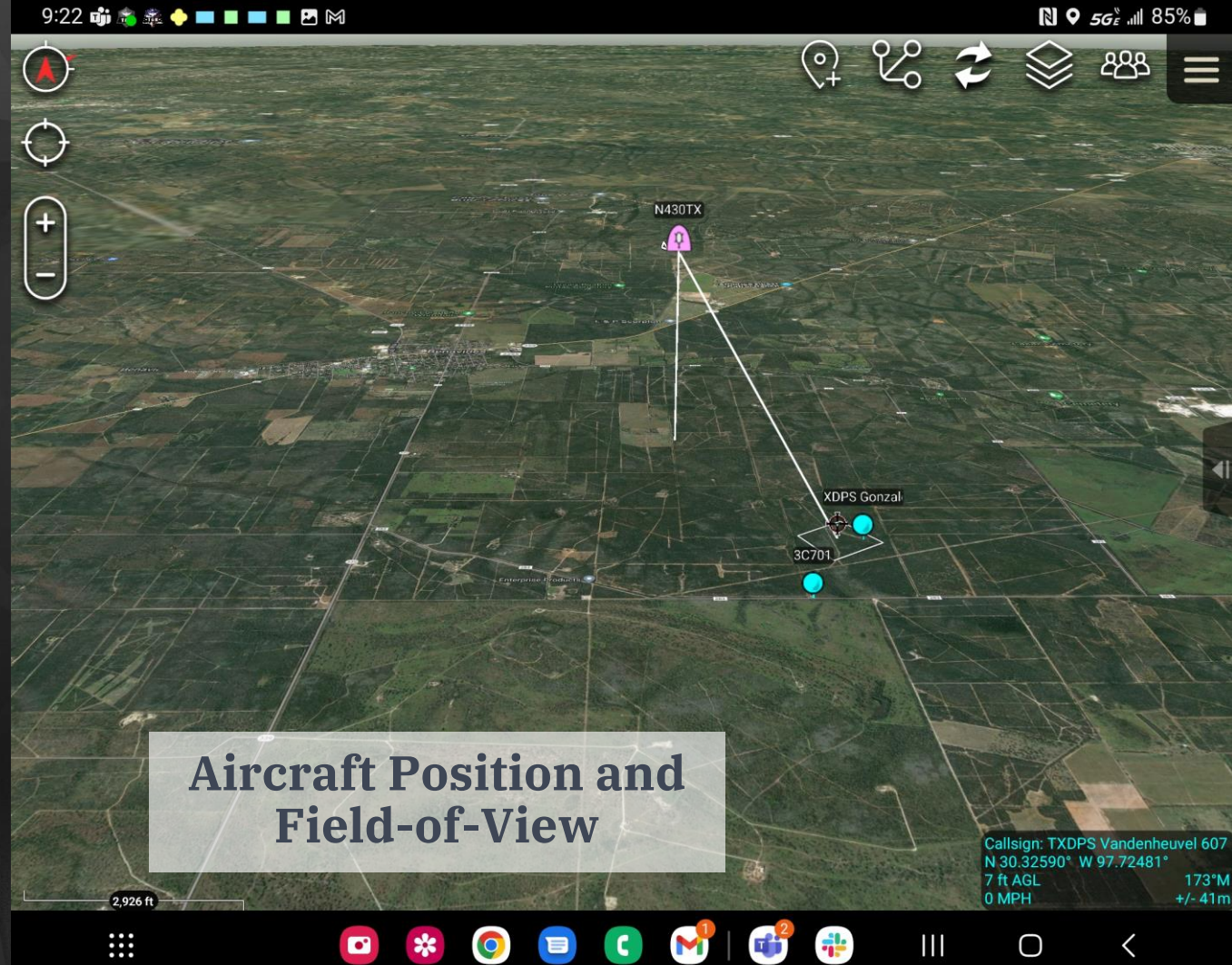


UAS Position and Video





SHOT OVER



Recording: OFF(00:00:00/08:09:26) (E:)

HAZE OFF
194M°
65 NM/h

0.5NM (00:27)

Navigation controls including a compass showing 012° and 068°, and directional arrows.

SPA and DL:LL controls with icons for zooming and navigation.

EQ
DL:LL

TX DPS (Gonzales) 13:36:30 Wed Jul 06 2022
VIDEO SPLIT SAT
SYNC Mrkr
SYNC Lyr
Chat
STREET PARCEL
REC SCR
REC CAM

TXDPS Alberd
A central target icon with a red dot and a red line pointing to it.

N : OFF - DISARM

Additional notifications: 53
N145TX: 100 is en route to hq
TXDPS Alberd : we see you. 2 targets have been identified for you
TXDPS Alberd : lock on to GOT1

Denson Dr (604-699) / Burns St 90FT
Austin-Travis TX (Travis County)

CLEAR
Distance 0.29 M
Direction NE

Augmented Reality

13/31 0.7NM 197M° (00:40)

HAZE
OFF

SWITCH



REC
SCR

REC
CAM



COWIMS

New
Layer

Dyn
Layers

Obstacle

SYNC
Mrkr

Chat

VIDEO

SPLIT

TGT

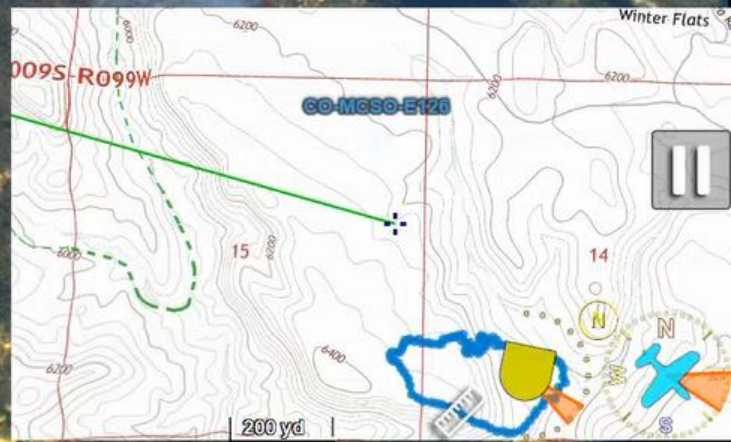
TOPO2

OFF
STREET
PARCEL



CO-MCSO-E126

35.10 Rd

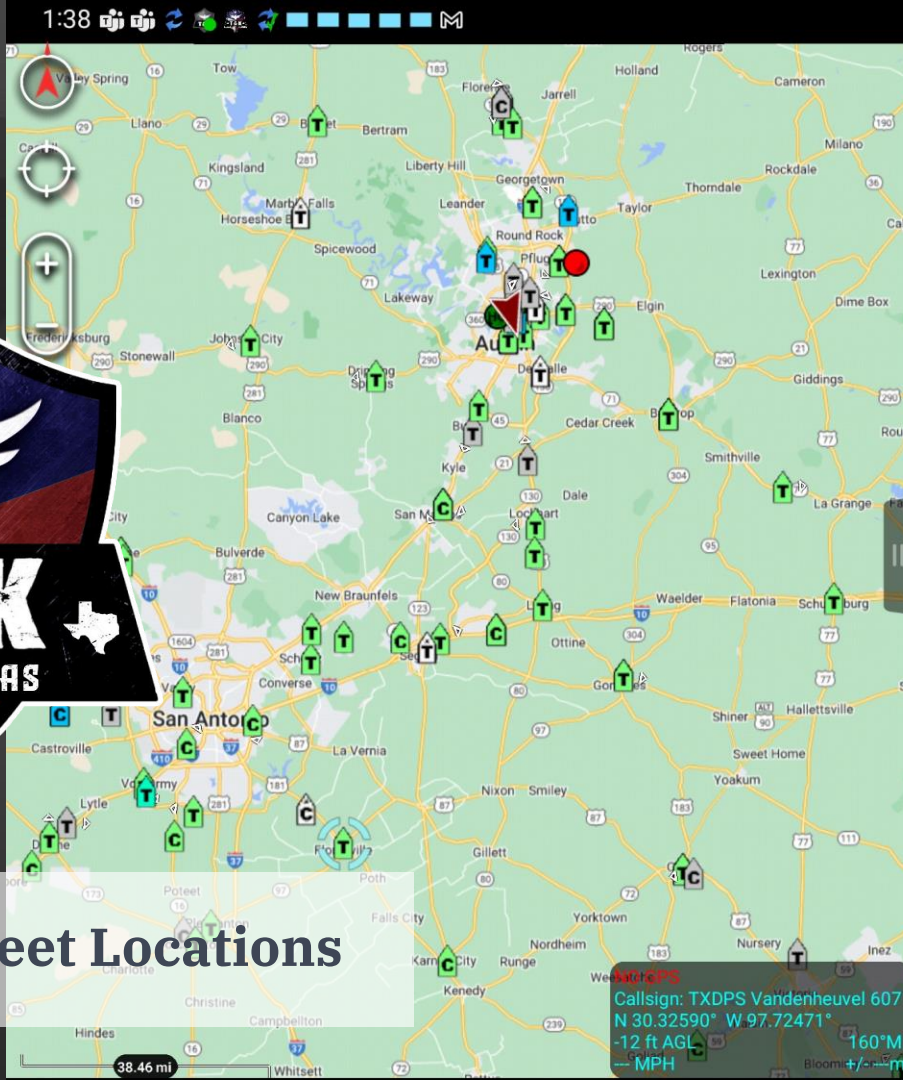


35.10 Rd / 35.20 Rd
De Beque CO (Mesa County)

[no markers]



Fleet Locations



1:38 [Icons]

[Icons]

6C250

Coordinate
N 29.14844° W 98.15814°
-- ft AGL

UNK CAT6
Derived From: ???

Additional Information
0 MPH 95°M

Author
Remarks

Trooper: SCOTT JENDRZEY
Radio: 6C250
Status: ACTIVE
Type: THP
Event: GPS ACQ
Fix Time: 2022-10-05 08:45:53
TimeZone: CDT
Speed: 0.00 mph
Heading: 98.68
Last CMD: 41
Remark:

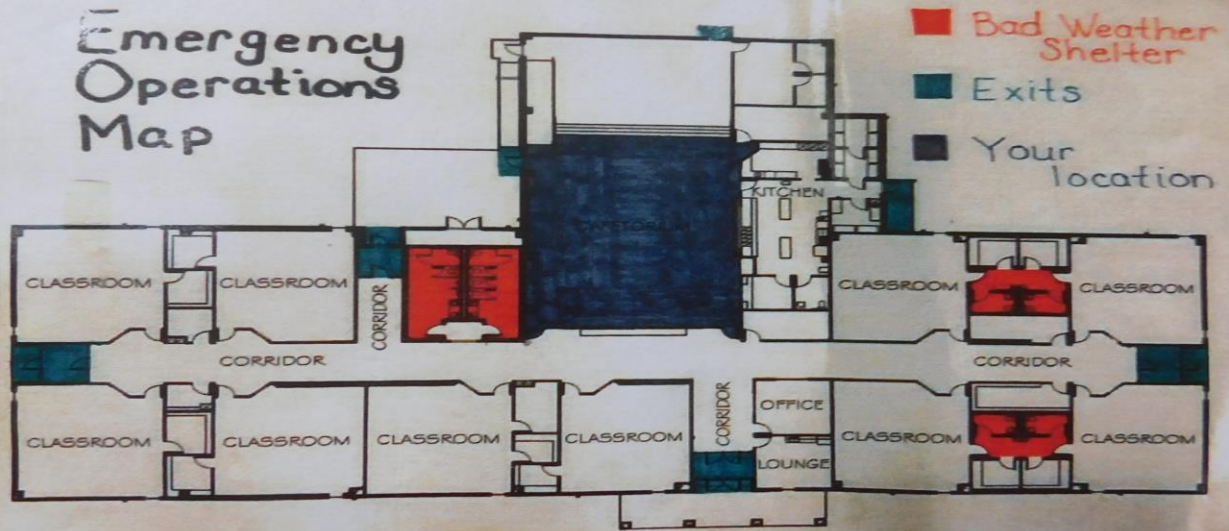
Last Report Wed Oct 05 13:37:46 CDT 2022

SEND [Icon]

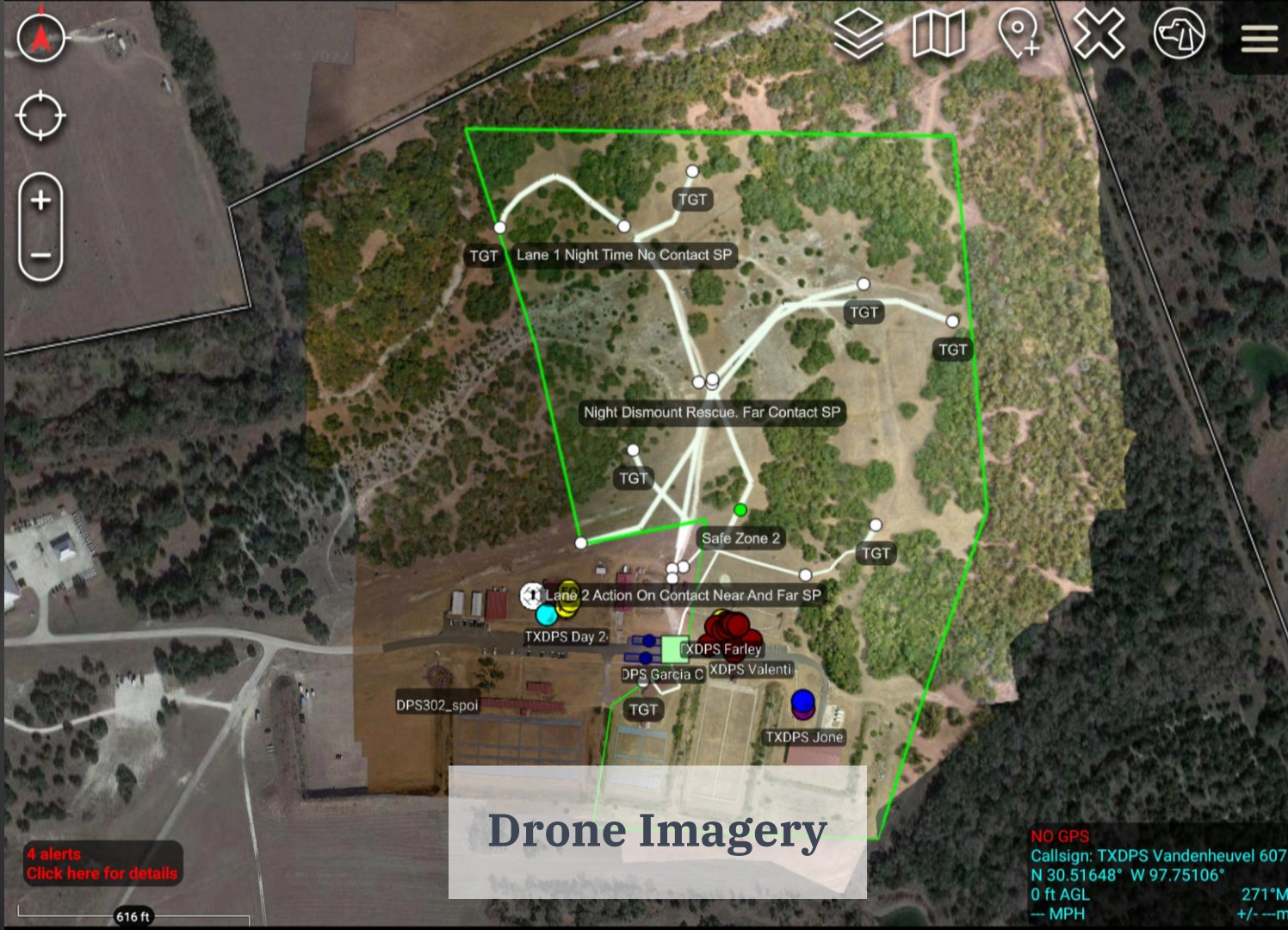
Call Sign: TXDPS Vandenheuvel 607
N 30.32590° W 97.72471°
-12 ft AGL
-- MPH

Floorplans and Maps

Emergency Operations Map



Floorplans



Mobile Ad-Hoc Networks

- ▶ Off-the-grid comms in remote areas
- ▶ Easily integrated into TAK



Federated Identity Management





- ▶ Password fatigue is a barrier to information sharing
- ▶ During The Incident is not the time to be creating or unlocking accounts
- ▶ We need **this** in public safety
- ▶ Re-use a credential someone already has!



Sign Up

Already a member? [Log In](#)

 Sign up with Facebook

 Sign up with Google

or

Sign up with email

☒ Join this site's community. [Read more](#)



TAK Manager

Manage users and roles for TAK

You are accessing a Texas Department of Public Safety system. For security, this system may be monitored, recorded, and audited. Any unauthorized use is prohibited and subject to civil or criminal penalties. By accessing this system, you consent to these terms.

Please choose an identity provider below to login.



Texas DPS - For issues logging in with your DPS account contact the help desk at 512-424-5432.



LEEP - Law Enforcement Enterprise Portal - To get an account or for help with LEEP accounts for TX law enforcement, please go

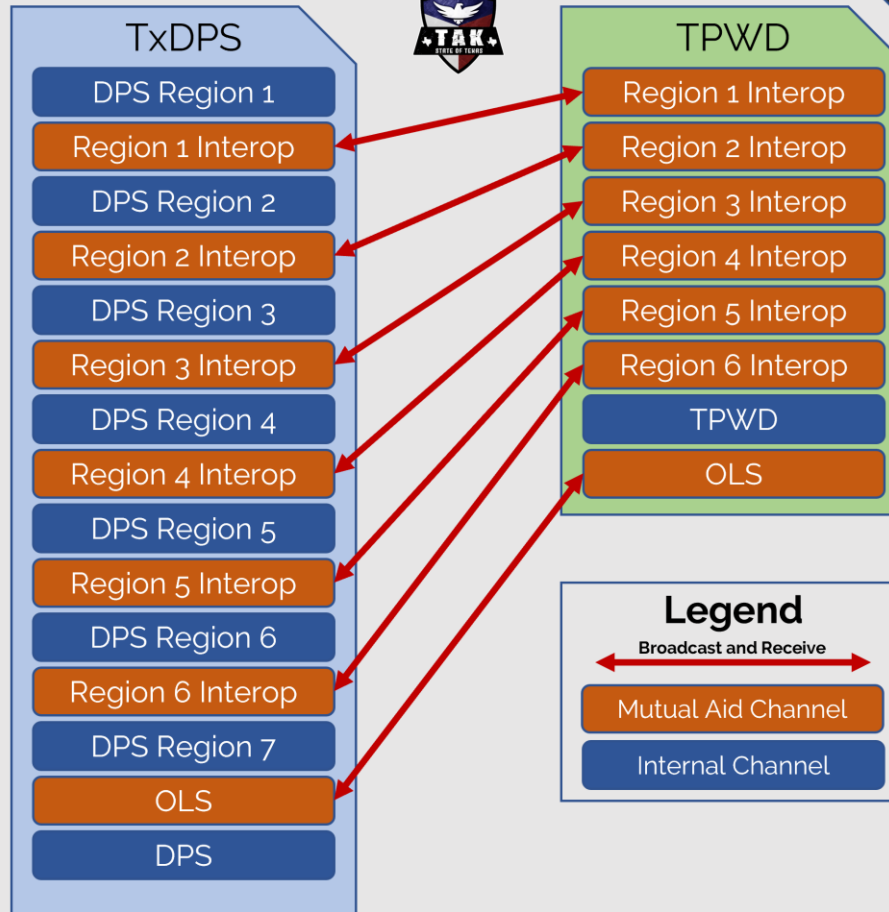
[here](#)



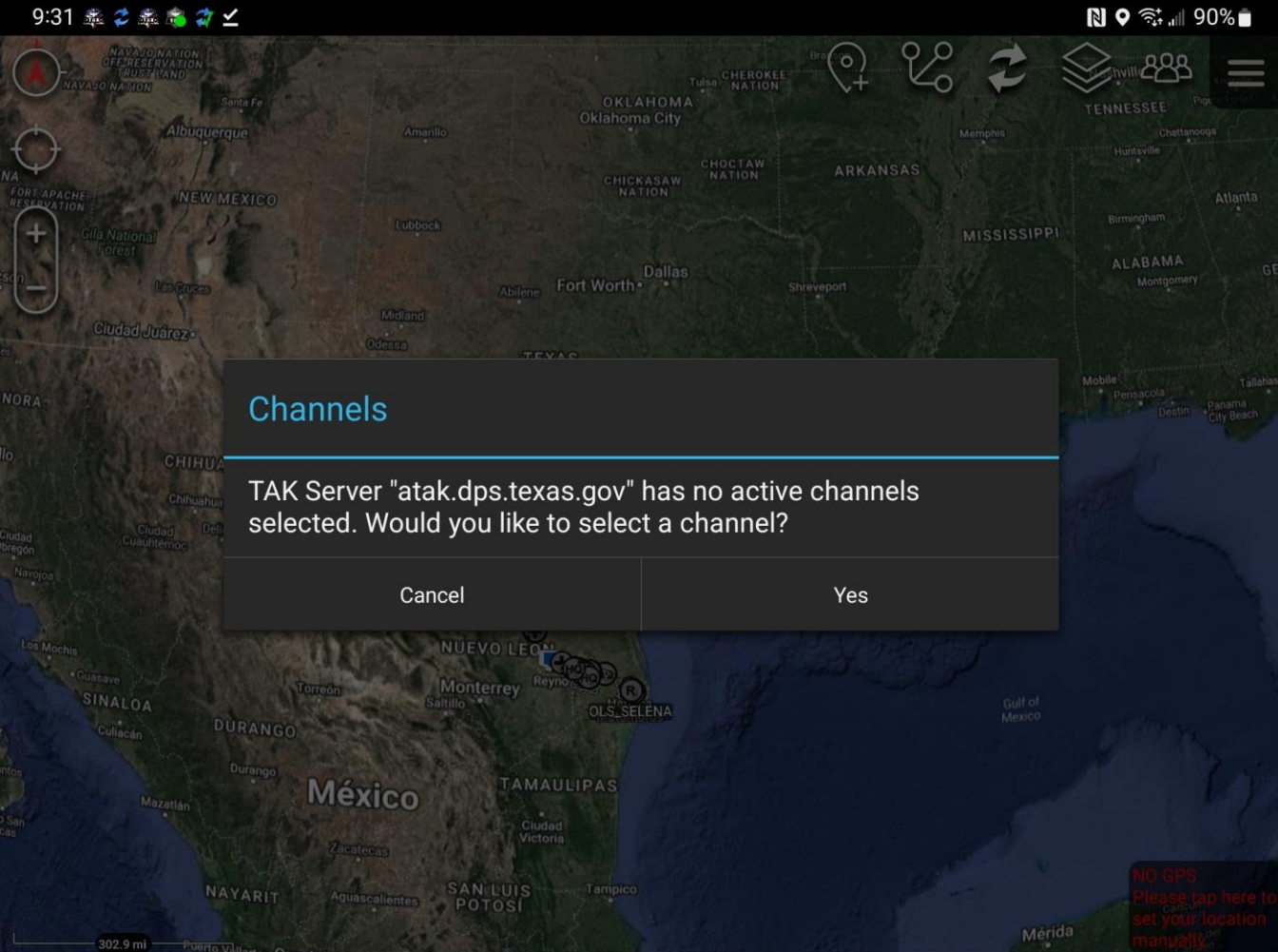
Future Identity Providers

- ▶ FirstNet
- ▶ Foundation for Trusted Identity
- ▶ Homeland Security Information Network?
- ▶ Verizon Frontline?
- ▶ T-Mobile Connecting Heroes?

Texas TAK Server



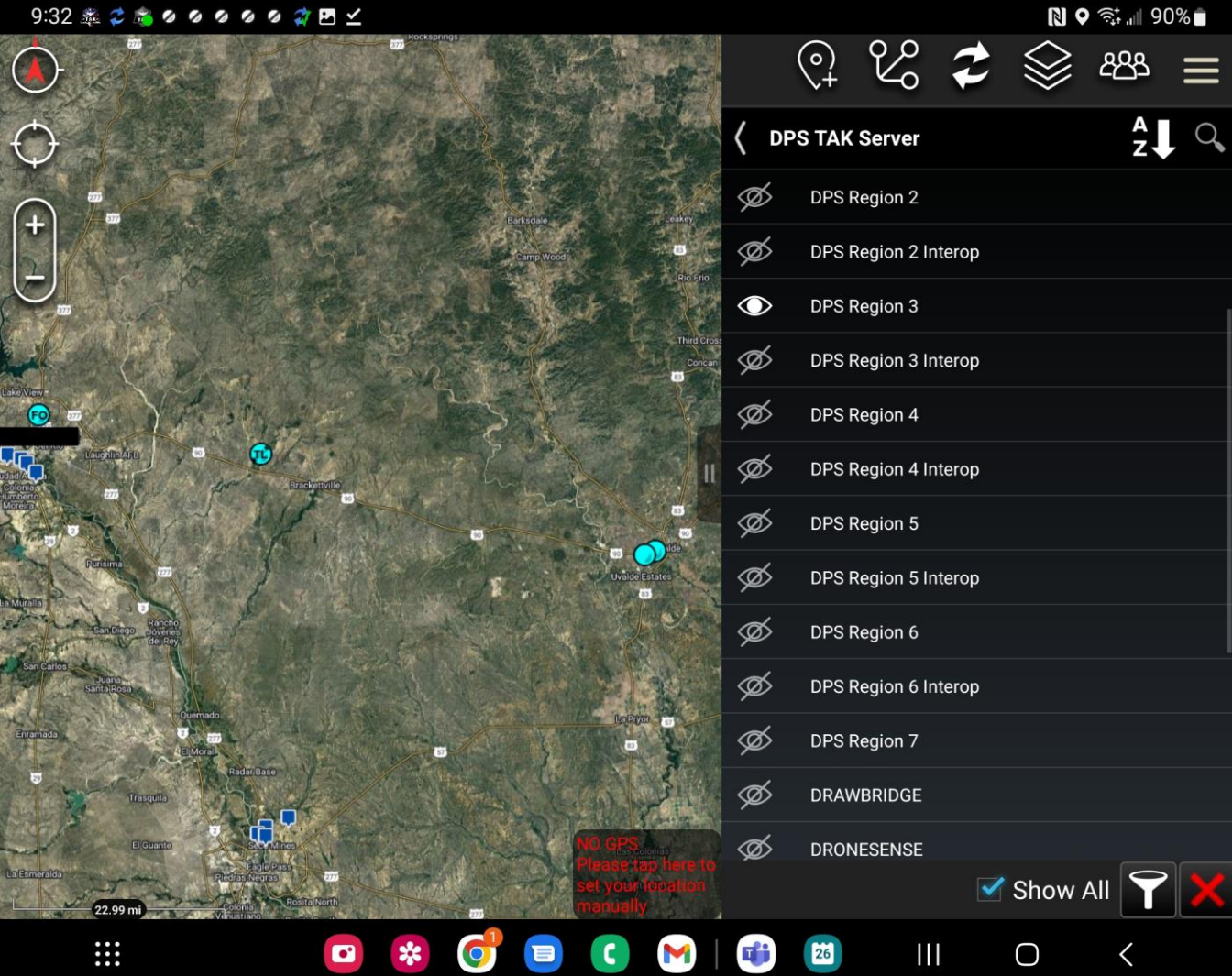
Channels



ATAK will notify you if you have no channels selected

You will not be able to see and communicate with anyone until you select an active channel

NO GPS
Please tap here to
set your location
manually



By activating the channel **DPS Region 3**, you will be able to see and communicate with any other users with the channel **DPS Region 3** activated

Emergency Onboarding

- ▶ Shared certificate for direct access
- ▶ Expires in 1-7 days

Name:

Jared Test-20220726084409

Description:

Just a test. We can pretend this was a hurricane or a super bowl.

Expiration Date:

07/31/2022 15:44:09

Filter Groups:

ADSB(O) ⓘ

DPS(I) ⓘ

DPS(O) ⓘ

DRONESENSE(O) ⓘ

Download



TAK Weaknesses

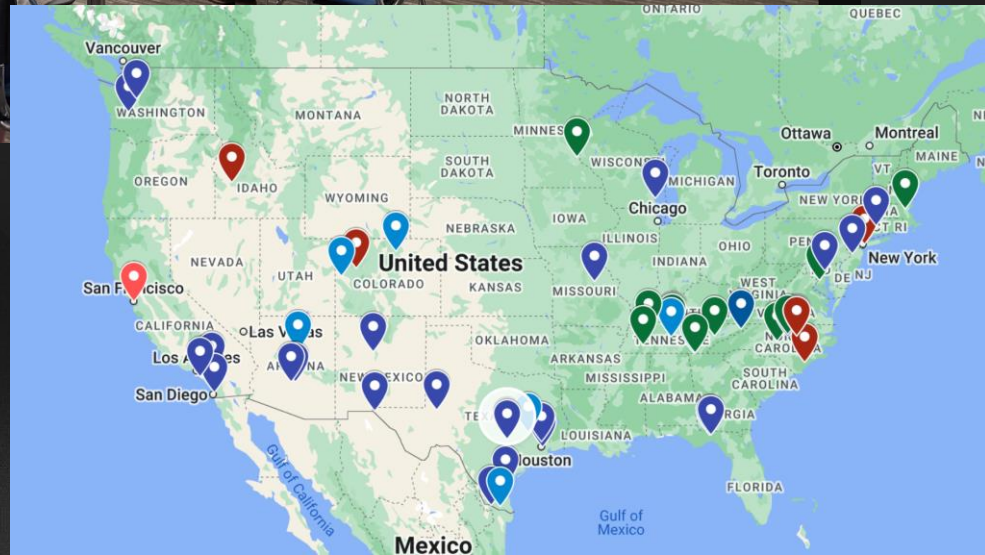
- ▶ Technical barriers to entry
- ▶ Interface a bit overwhelming
- ▶ Chat tool not very powerful
- ▶ Designed around military needs, not public safety
- ▶ Apple iOS lack of parity

TAK is a tool for interoperability





National Adoption

















Chairperson

Region 10
members

Federal at-large

We Want Your Help!

- ▶ We want more identity providers and federation partners
- ▶ TAK for joint operations
- ▶ TAK for state emergency communications plan
- ▶ TAK channel planning
- ▶ SOP development (callsigns, teams)

	Green
	Red
	Purple
	Orange
	Yellow
	Blue
	Magenta
	Cyan
	White
	Maroon
	Dark Blue
	Teal
	Dark Green
	Brown

Thanks!

pss@dps.texas.gov

